What is Claimed is:

- An article of manufacture for polishing a substrate, comprising:

 a polishing article comprising a body having at least a partially conductive

 surface adapted to polish the substrate and a mounting surface.
- 2. The article of claim 1, wherein the body comprises at least a conductive material having at least a portion of a conductive polymer, conductive filler materials, a polymer composite with conductive materials, a conductive metal, a metal mesh, or combinations thereof.
- 3. The article of claim 1, wherein the conductive surface has a resistivity of about 10 Ω -cm or less.
- 4. The article of claim 2, wherein the polishing article comprises a metal mesh disposed in a conventional polishing material, wherein the metal mesh is connected to a power source and conducts electricity to the substrate surface through the conductive polishing surface.
- 5. The article of claim 1, wherein the polishing article further comprises a plurality of perforations formed therein.
- 6. The article of claim 5, further comprising a plurality of grooves disposed in the polishing surface.
- 7. The article of claim 6, wherein at least a portion of the plurality of grooves intersect with at least a portion of a plurality of perforations disposed in the polishing surface.
- 8. The article of claim 1, wherein the conductive surface comprises conductive polishing article disposed on a conductive article support.

- 9. The article of claim 8, wherein the conductive article support is connected to a power source and conducts electricity to the substrate surface through the conductive polishing surface.
- 10. The article of claim 5, wherein the article of manufacture is disposed on a polishing article support comprising a plurality of perforations disposed therein for flow of material therethrough.
- 11. The article of claim 10, wherein a plurality of perforations in the polishing article are aligned with the plurality of perforations of the polishing article support.
- 12. The article of claim 5, wherein the polishing article is mounted on an apparatus for processing a substrate, comprising:

a basin:

a permeable disc disposed in the basin, wherein the polishing article is disposed on the permeable disk and wherein at least a portion of the polishing article comprises an electrode;

a counter electrode disposed in the basin between the permeable disc and the bottom of the basin; and

a polishing head adapted to retain the substrate during processing.

- 13. A polishing article for polishing a substrate, comprising:
 - a body having a polishing surface adapted to polish the substrate; and
- at least one conductive element embedded in the polishing surface, the conductive element having a contact surface that extends beyond a plane defined by the polishing surface.
- 14. The polishing article of claim 13, wherein the body comprises a dielectric material selected from the group of polyurethane, polycarbonate, polyphenylene sulfide, felt fibers leached with urethane, filled polymers, foamed polymers, and combinations thereof.

- 15. The polishing article of claim 13, wherein the body has a plurality of apertures formed therethrough.
- 16. The polishing article of claim 13, further comprising a biasing member disposed between the conductive element and the body, the biasing member adapted to urge the conductive element towards the polishing surface.
- 17. The polishing article of claim 16, wherein the biasing member comprises a spring, a foam polymer, plastic tubing, an elastomer, or combinations thereof.
- 18. The polishing article of claim 16, wherein the biasing member is resilient and urges a compliant contact surface of the conductive element to electrically contact the substrate disposed on the polishing surface.
- 19. The polishing article of claim 16, wherein the conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a roller, a ball, and combinations thereof.
- 20. The polishing article of claim 16, wherein the biasing member is selected from the group of a spring, a foam polymer, plastic tubing, an elastomer, and combinations thereof, the conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a roller, a ball, and combinations thereof, wherein urges a compliant contact surface of the conductive element to electrically contact the substrate disposed on the polishing surface.
- 21. The polishing article of claim 15, wherein the polishing article comprises: a body having a polishing surface adapted to polish the substrate;
- a plurality of conductive compliant elements embedded in the polishing surface, the conductive compliant elements having a contact surface that extends beyond a plane defined by the polishing surface and is adapted to be urged by the substrate towards the polishing surface; and

- a biasing member disposed between the conductive compliant elements and the body
- 22. The polishing article of claim 13, wherein the conductive member is compliant.
- 23. The polishing article of claim 13, wherein the contact surface is rounded, cylindrical, spherical or comprised of fibers, loops, fingers, strands, or combinations thereof.
- 24. The polishing article of claim 13, wherein the conductive element further comprises:
 - a carrier disposed in a pocket formed in the body; and
- a contact member disposed on the carrier and extending beyond a plane defined by the polishing surface.
- 25. The polishing article of claim 24, wherein the carrier and contact member are conductive.
- 26. The polishing article of claim 24, wherein the contact member comprises a plurality of balls, pins, a rod, a spring, or combinations thereof.
- 27. The polishing article of claim 24, wherein at least one of the carrier and contact member is made of graphite.
- 28. The polishing article of claim 13, further comprising a connector coupled to the conductive member and adapted to electrically couple the conductive member to a bias power source.
- 29. A polishing article for polishing a substrate, comprising: a body having a polishing surface adapted to polish the substrate; at least one conductive element embedded in the polishing surface; and

one or more pockets formed in the polishing surface, wherein the conductive element is disposed in at least one of the pockets.

- 30. The polishing article of claim 29, wherein the conductive element has a contact surface that extends beyond a plane defined by the polishing surface.
- 30. The polishing article of claim 29, further comprising a biasing member disposed in the pocket between the conductive element and the body.
- 31. The polishing article of claim 29, wherein the biasing member is a spring, a foam polymer, plastic tubing, an elastomer, or combinations thereof, and urges a compliant contact surface of the conductive element to electrically contact the substrate disposed on the polishing surface.
- 33. The polishing article of claim 29, wherein the conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a roller, a ball, or combinations thereof.
- 34. The polishing article of claim 29, wherein the conductive element further comprises a contact surface that extends beyond a plane defined by the polishing surface.
- 35. The polishing article of claim 34, wherein the contact surface is rounded, cylindrical, spherical or comprised of fibers, loops, fingers, strands, or combinations thereof.
- 36. The polishing article of claim 29, wherein the conductive element further comprises:
 - a carrier disposed in the pocket;
 - a contact member disposed on the carrier; and
- wherein at least a portion of the contact member extends beyond a plane defined by the polishing surface.

PATENT
Atty. Dkt. AMAT/5844/CMP/CMP/RKK
Express Mail No. EV041916445US

- 37. The polishing article of claim 36, wherein the carrier and contact member are conductive.
- 38. The polishing article of claim 36, wherein the contact member comprises a plurality of balls, pins, a rod, a spring, or combinations thereof.
- 39. The polishing article of claim 36, wherein at least one of the carrier and contact member is made of graphite.
- 40. The polishing article of claim 29, further comprising a connector coupled to the conductive member and adapted to electrically couple the conductive member to a bias power source through or around the body.
- 41. The polishing article of claim 13, wherein the polishing article is disposed on an apparatus for processing a substrate, comprising:
 - a basin;
- a permeable disc disposed in the basin, wherein the polishing article is disposed on the permeable disk;
- a counter electrode disposed in the basin between the permeable disc and the bottom of the basin; and
 - a polishing head adapted to retain the substrate during processing.